

U.S. Parent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 2 of 9

### AMENDMENTS TO THE CLAIMS

*This listing of claims will replace all prior versions, and listings, of claims in the application:*

#### Listing of Claims:

1. (Withdrawn) An optical projection system comprising:  
a plurality of spatial light modulators producing at least a first sub-image and a second sub-image;  
a first relay for producing a first equalized sub-image from the first sub-image;  
a second relay for producing a second equalized sub-image from the second sub-image;  
and  
a first reflective surface and a second reflective surface for combining the first equalized sub-image and the second equalized sub-image into a composite tiled image by partially overlapping the first equalized sub-image and the second equalized sub-image.
2. (Withdrawn) The optical projection system according to claim 1 wherein the first reflective surface and the second reflective surface are disposed so that the first reflective surface and the second reflective surface meet at an apex.
3. (Withdrawn) The optical projection system according to claim 2 wherein the first reflective surface and the second reflective surface are formed by a prism.

U.S. Patent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 3 of 9

4. (Withdrawn) The optical projection system according to claim 2 wherein the apex functions to decrease intensity of illumination to provide enhanced blending in an overlapped regions of the first equalized sub-image and the second equalized sub-image.
5. (Withdrawn) The optical projection system according to claim 4 further comprising a projection lens for projecting composite tiled images.
6. (Withdrawn) The optical projection system according to claim 1 in which each of the plurality of spatial light modulators comprises one or more of a digital mirror device or a liquid crystal device.
7. (Withdrawn) The optical projection system according to claim 3, wherein position of the prism is moved forward and backward relative to an optical axis of the optical projection system.
8. (Withdrawn) The optical projection system according to claim 3 further comprising at least one polarizing beam splitter interposed optically between at least one spatial light modulator and the prism to produce a superimposed image.
9. (Withdrawn) The optical projection system according to claim 3, wherein the prism is a pyramid prism.

U.S. Patent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 4 of 9

10. (Withdrawn) The optical projection system according to claim 1 further comprising at least one pre-modulator.
11. (Withdrawn) The optical projection system according to claim 5 further comprising an edge mask interposed optically between the pyramid prism and the projection lens.
12. (Previously Presented) An optical projection system comprising:
- at least one light source;
  - at least a first spatial light modulator producing at least a first image;
  - a first polarizing beam splitter between the at least one light source and the at least one first spatial light modulator;
  - at least a second spatial light modulator producing at least a second image;
  - a second polarizing beam splitter between the at least one light source and the at least one second spatial light modulator;
  - a combining polarizing beam splitter for combining the first image and the second image by superimposition to create a composite first image, wherein the first image is transmitted by the first polarizing beam splitter and reflected by the combining polarizing beam splitter and the second image is reflected by the first polarizing beam splitter and transmitted by the combining polarizing beam splitter.

U.S. Patent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 5 of 9

13. (Withdrawn) The optical projection system according to claim 1, wherein the first and second relays permit adjustment of the magnification of the first equalized sub-image and the second equalized sub-image.

14. (Withdrawn) The optical projection system according to claim 1, further comprising a plurality of projection lenses associated therewith.

15. (Withdrawn) A method of projecting a plurality of images, comprising:

producing a first sub-image and a second sub-image with a first plurality of spatial light modulators;

producing a third sub-image and a fourth sub-image with a first plurality of spatial light modulators;

combining the first sub-image and the second sub-image by superimposition to produce a first superimposed sub-image;

combining the third sub-image and the fourth sub-image by superimposition to produce a second superimposed sub-image; and

combining the first superimposed sub-image and the second superimposed sub-image by tiling to produce a composite image.

Claims 16-18 (Canceled)

U.S. Patent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 6 of 9

19. (Withdrawn) The optical system according to claim 1, wherein the first equalized sub-image is projected by a first projection lens and the second equalized sub-image is projected by a second projection lens.

Claims 20-27 (Canceled)

28. (Previously Presented) The optical projection system of claim 12, wherein a second composite image is produced by superimposition and the projection system further comprises a first reflective surface and a second reflective surface for combining the first composite image and the second composite image into a composite tiled image by partially overlapping the first composite image and the second composite image.

29. (Previously Presented) The optical projection system according to claim 28, wherein the first reflective surface and the second reflective surface are disposed so that the first reflective surface and the second reflective surface meet at an apex.

30. (Previously Presented) The optical projection system according to claim 29 wherein the first reflective surface and the second reflective surface are formed by a prism.

31. (Previously Presented) The optical projection system according to claim 12 further comprising at least one pre-modulator.

U.S. Patent Application Serial No. 09/980,068  
Filed: November 28, 2001  
Response to Notice of Non-Compliant Amendment  
Page 7 of 9

32. (Withdrawn) The method of claim 15, wherein the first sub-image and the second sub-image are combined using at least one polarizing beam splitter and the third sub-image and the fourth sub-image are combined using at least one polarizing beam splitter.
33. (Withdrawn) The method of claim 15, wherein the first superimposed sub-image and the second superimposed sub-image are combined by partially overlapping first superimposed sub-image and the second superimposed sub-image using a first reflective surface and a second reflective surface.
34. (Withdrawn) The method of claim 33, wherein the first reflective surface and the second reflective surface are disposed so that the first reflective surface and the second reflective surface meet at an apex.
35. (Withdrawn) The method of claim 34, wherein the first reflective surface and the second reflective surface are formed by a prism.
36. (Withdrawn) The method of claim 15 further comprising pre-modulating light to the spatial light modulators to produce the first sub-image and the second sub-image.